



US EPA RECORDS CENTER REGION 5



489294

January 25, 2011

Mr. Michael Berkoff
Work Assignment Manager
U.S. Environmental Protection Agency (EPA)
77 West Jackson Boulevard (SR-6J)
Chicago, IL 60604

**Subject: Field Oversight Summary for January 18, 2011
Plainwell Mill Site, Fannie Pell Park Western Bridge Footing
Plainwell, Allegan County, Michigan
Remedial Action Contract (RAC) 2 No. EP-S5-06-02
Work Assignment No. 041-RSBD-059B**

Dear Mr. Berkoff:

SulTRAC has prepared the enclosed summary to document a soil and groundwater investigation at the Fannie Pell Park Western Bridge Footing at the Plainwell Mill site on January 18, 2011. Weyerhaeuser Company is the potentially responsible party for the site, and Conestoga-Rovers & Associates, Inc., (CRA), is its environmental contractor. Appendix A of this summary contains a photographic log of the investigation activities. Appendix B contains SulTRAC's field oversight notes. Attachment 1 contains CRA's site maps with proposed sample locations.

If you have any questions about the enclosed summary, please call me at (312) 201-7491.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey J. Lifka".

Jeffrey J. Lifka
Project Manager

Enclosure

cc: Darlene Hainer, EPA Contracting Officer (letter only)
Mindy Gould, SulTRAC Program Manager (letter only)
Robert Kondreck, SulTRAC Geologist
File

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ENCLOSURE

**FIELD OVERSIGHT SUMMARY
FOR JANUARY 18, 2011
SOIL AND GROUNDWATER INVESTIGATION AT FANNIE PELL PARK
WESTERN BRIDGE FOOTING
PLAINWELL MILL SITE
PLAINWELL, ALLEGAN COUNTY, MICHIGAN**

(Three Pages)

**FIELD OVERSIGHT SUMMARY
FOR JANUARY 18, 2011
SOIL AND GROUNDWATER INVESTIGATION AT FANNIE PELL PARK
WESTERN BRIDGE FOOTING
PLAINWELL MILL SITE
PLAINWELL, ALLEGAN COUNTY, MICHIGAN**

SulTRAC Oversight Personnel: Robert Kondreck
Reporting Period: January 18, 2011

INTRODUCTION

As requested by the U.S. Environmental Protection Agency (EPA) under contract number EP-S5-06-02 and work assignment number 041-RSBD-059B, SulTRAC conducted oversight of a soil and groundwater investigation at the Fannie Pell Park Western Bridge Footing, located on the northeastern portion of the Plainwell Mill Site, Operable Unit No.7 of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site in Plainwell, Allegan County, Michigan. The investigation was conducted in preparation for the installation of a concrete footing on the western side of a pedestrian bridge spanning the mill race that is adjacent to the eastern site boundary. The bridge will connect the Plainwell Mill to Fannie Pell Park located on the eastern side of the mill race. Weyerhaeuser Company (Weyerhaeuser) is the potentially responsible party (PRP) for the site. Conestoga-Rovers & Associates, Inc. (CRA) is the environmental consultant to Weyerhaeuser.

As requested by EPA, SulTRAC oversaw activities at the site on January 18, 2011. This report summarizes SulTRAC's oversight activities and documentation of the PRP's soil and groundwater investigation; and issues and developments that arose during the oversight activities. Appendix A contains a photographic log of site activities, including Photographs No. 1 through 6. Appendix B contains a copy of SulTRAC's field oversight notes. Attachment 1 contains CRA's site maps from its investigation plan (CRA 2011) with proposed sample locations.

Tuesday, January 18, 2011

At 8:00 a.m., SulTRAC representative Robert Kondreck arrived on site. The weather was overcast, with temperatures in the low 30s degrees Fahrenheit (°F). CRA personnel on site included a field technician and two Geoprobe® operators. CRA owns the Geoprobe®. By 8:45 a.m., CRA had begun advancing soil boring SB-2014 to a depth of 14 feet below ground surface (bgs) using a Geoprobe macrocore sampling system. The locations of the soil borings are identified in Attachment 1. Photographs No. 1 and 2 provide a visual representation (see Appendix A). After advancement to 14 feet bgs, refusal was met at concrete. Groundwater was not encountered prior to refusal. CRA collected soil samples at 2-foot intervals, placed the samples in a Ziploc® bag, and screened the samples for the presence of volatile organic compounds (VOC) using a photoionization detector (PID) (see Photograph No. 3 in Appendix A). PID measurements ranged from 0 to 1.4 parts per million (ppm). No odor was detected in any of the soil cores. As a result of low PID measurements and no odor, CRA collected soil samples at the planned intervals of 0.5 to 1.5 and 12.5 to 13.5 feet bgs for submittal to TestAmerica®. Laboratory analyses at TestAmerica subsequently proceeded for Target Compound List (TCL) VOCs, TCL semi-volatile organic compounds (SVOC), Target Analyte List (TAL) metals, cyanide, polychlorinated biphenyls (PCBs), and general chemistry parameters including nitrogen and phosphorus compounds. In addition, similar to the early 2010 soil investigations at the site, any soil sample exceeding the metals or cyanide Michigan Part 201 criteria underwent synthetic precipitation leaching procedure (SPLP).

At 9:40 a.m., the CRA Geoprobe® operators were advancing soil boring SB-2015 to a depth of 20 feet bgs. At 10:15 a.m., CRA finished advancing the soil boring and screened the soil using a PID in 2-foot intervals: the highest measurement was 3.4 ppm at the 0 to 2.5-foot bgs interval (see Photograph No. 4 in Appendix A). No odor was detected. CRA collected two soil samples for laboratory submittal: one at the 0.5 to 1.5-foot bgs interval and one at the 12.5 to 13.5-foot interval. Groundwater was encountered at 14 feet bgs. CRA submitted the SB-2015 soil samples to the laboratory for analyses for the same analytical parameters listed above for the SB-2014 soil samples.

By 10:45 a.m., CRA had installed a temporary screen using the Geoprobe in SB-2015. CRA purged the groundwater using a low-flow method (using a peristaltic pump) for approximately 30 to 40 minutes until the groundwater became clear. At 12:05 p.m., water quality parameters stabilized and sampling began for analyses for TCL VOCs, TCL SVOCs, TAL metals, cyanide, PCBs, and general chemistry parameters including nitrogen and phosphorus compounds (see Photograph No. 5 in Appendix A). Around 12:45 p.m., CRA completed groundwater sampling. Following removal of the temporary screen, CRA sealed soil borings SB-2014 and SB-2015 using bentonite chips (see Photograph No. 6 in Appendix A).

SulTRAC left the site at 1:00 p.m. The CRA field technician left the site around the same time as SulTRAC, leaving the Geoprobe® operators to finish loading the probing equipment.

ISSUES AND DEVELOPMENTS

Refusal in soil boring SB-2014 was encountered above the groundwater table at just above 14 feet bgs; therefore, the vadose (unsaturated) zone could not be established. However, in soil boring SB-2015, located approximately 5 feet south of SB-2014, groundwater was discovered at 14 feet bgs. Therefore, a reasonable assumption is that the SB-2014 soil sample collected from the 12.5 to 13.5-ft bgs interval was within the vadose zone and met the proposed sampling criteria.

FUTURE ACTIVITIES

SulTRAC will oversee any further PRP investigative activities in the future at the request of EPA. The next scheduled activity is planned for Spring 2011, with construction of the Fannie Pell Park pedestrian bridge if (1) the samples collected during this investigation show no contamination in the western bridge footing area and (2) EPA approves the bridge construction work plan, which is pending from CRA.

REFERENCE

CRA 2011. Soil and Groundwater Investigation Work Plan. Fannie Pell Park Western Bridge Footing. Former Plainwell Mill, Inc. Property. Plainwell, Michigan. January 5.

APPENDIX A
SULTRAC PHOTOGRAPHIC LOG
(Three Pages)



Geoprobe®
Location

Photograph No. 1
Orientation: North
Description: Drilling location of SB-2014 and SB-2015.

Location: Plainwell Mill Site
Date: January 18, 2011



Photograph No. 2
Orientation: West
Description: Alternate view of drilling location of SB-2014 and SB-2015.

Location: Plainwell Mill Site
Date: January 18, 2011



Photograph No. 3
 Orientation: Overview
 Description: Soil cores from SB-2014.

Location: Plainwell Mill Site
 Date: January 18, 2011



Photograph No. 4
 Orientation: Northeast
 Description: Soil cores from SB-2015.

Location: Plainwell Mill Site
 Date: January 18, 2010



Photograph No. 5

Orientation: Overview

Description: Groundwater sampling setup at SB-2015.

Location: Plainwell Mill Site

Date: January 18, 2011



Photograph No. 6

Orientation: South

Description: Finished soil boring locations.

Location: Plainwell Mill Site

Date: January 18, 2011

APPENDIX B

SULTRAC OVERSIGHT FIELD NOTES

(One Sheet)

Plainville Farnside Pen Park 1-18-2011

0800 SUTRA (Kenswick) onsite; Evans (CRA) and Drilos (CRA) onsite. Site Safety Meeting 30° light snow mixed with rain, no wind

0845 CRA arriving during SB 2014 near the office building ———— *MC*
Photos x3 of Drilling location above ———— *MC*

0930 Advanced 14' refusal at concrete ———— *MC*
0-2' Dry Fill F.C. Sand, B.R. Fill F.C. Sand
2'-2 1/4', 2 1/4'-14' Fill F.C. Sand
partly sorted. PID btwn 0-14, no odor

0940 Collected 2 samples 1/2-1 1/2' & Dip + 12 1/2-13 1/2' for laboratory analysis VOCs
TCL, SVOC, CN, PCBs, Nitro, Phos

1015 Finished SB-2015 0-20' ———— *MC*
~~0-20'~~ as above 14-20' wet F.C. Gravel & Sand partly sorted ———— *MC*
Collected samples at same interval as above
0-2 1/4' on PID highest interval (3-4') @ 0.2%
Photo of boring, no odor detected ———— *MC*

1045 Began purging SB-2015, will purge for 30 min then start collecting measurements screened near 17'

1135 Began reading water quality ———— *MC*

	Temp	Cond	D.O.	pH	ORP	Turb
1150	4.38	0.743	0.77	6.97	157	9.91
1155	4.33	0.747	0.76	6.97	156	9.03
1200	4.31	0.741	0.74	6.97	156	9.14

MC 1-18-2011

Plainville Farnside Pen Park 1-18-2011

1205 Sample SB 2015 ———— *MC*

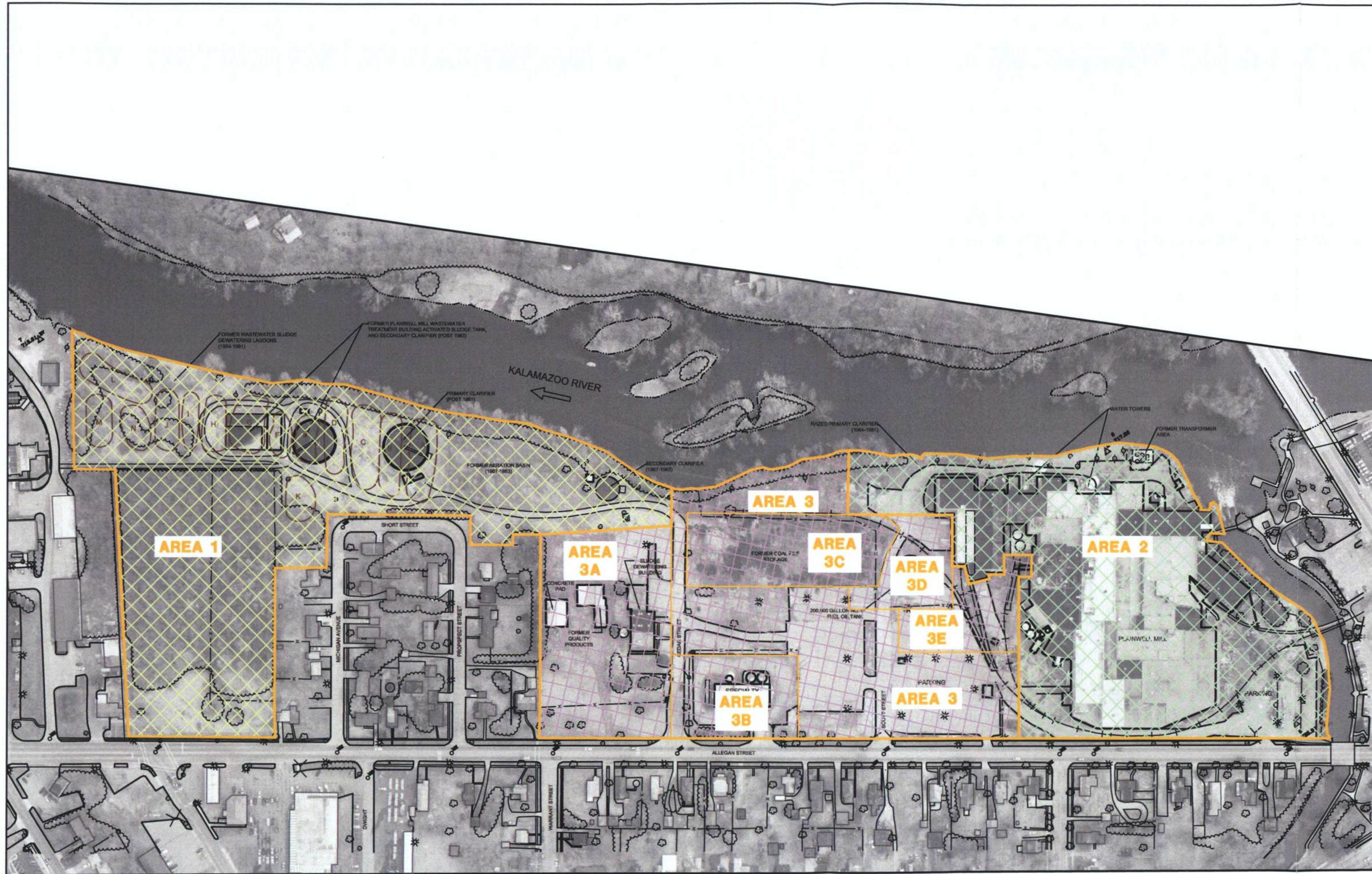
1245 Finished sampling for proposed parameters

1300 Sealed Borehole with Bentonite Chips, SUTRA (Kenswick) left site

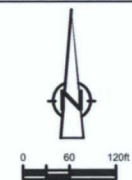
Backlog 1300 Photo of Bentonite Chipped Hole

MC
1-18-2011

ATTACHMENT 1
CONESTOGA-ROVERS & ASSOCIATES, INC.
SAMPLE LOCATION FIGURES
(Two Sheets)



No.	Revised	Date	By



LEGEND	
	AREA BOUNDARY
	SHORELINE
	FORMER WASTEWATER SLUDGE DEWATERING LAGOONS
	FENCELINE
	RAILWAY
	WOODED/VEGETATION
	UTILITY POLE
	LIGHT POLE
	MANHOLE
	SIGN

SCALE VERIFICATION	
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.	

ACTIVITY	

DRAWING STATUS	

FORMER PLAINWELL, INC. MILL PROPERTY
PLAINWELL, MICHIGAN

FORMER PLAINWELL, INC. MILL PROPERTY LAYOUT



Source Reference			
Project Manager	Reviewer	Date	
G. CARLI	L. CLARK	NOVEMBER 2010	
Scale	Project No.	Report No.	Drawing No.
1:120	056394-05	BERK003	Figure 1

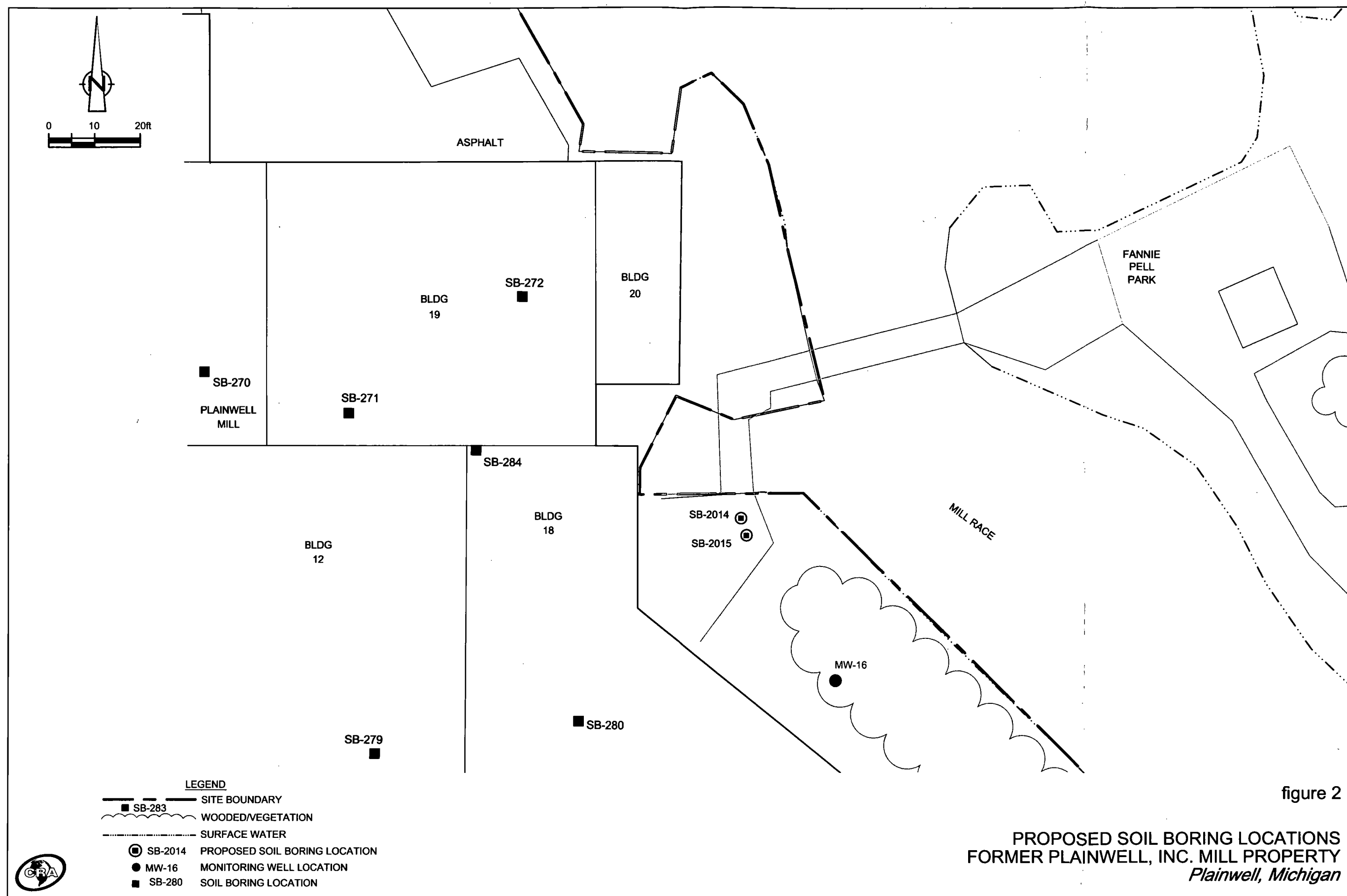


figure 2